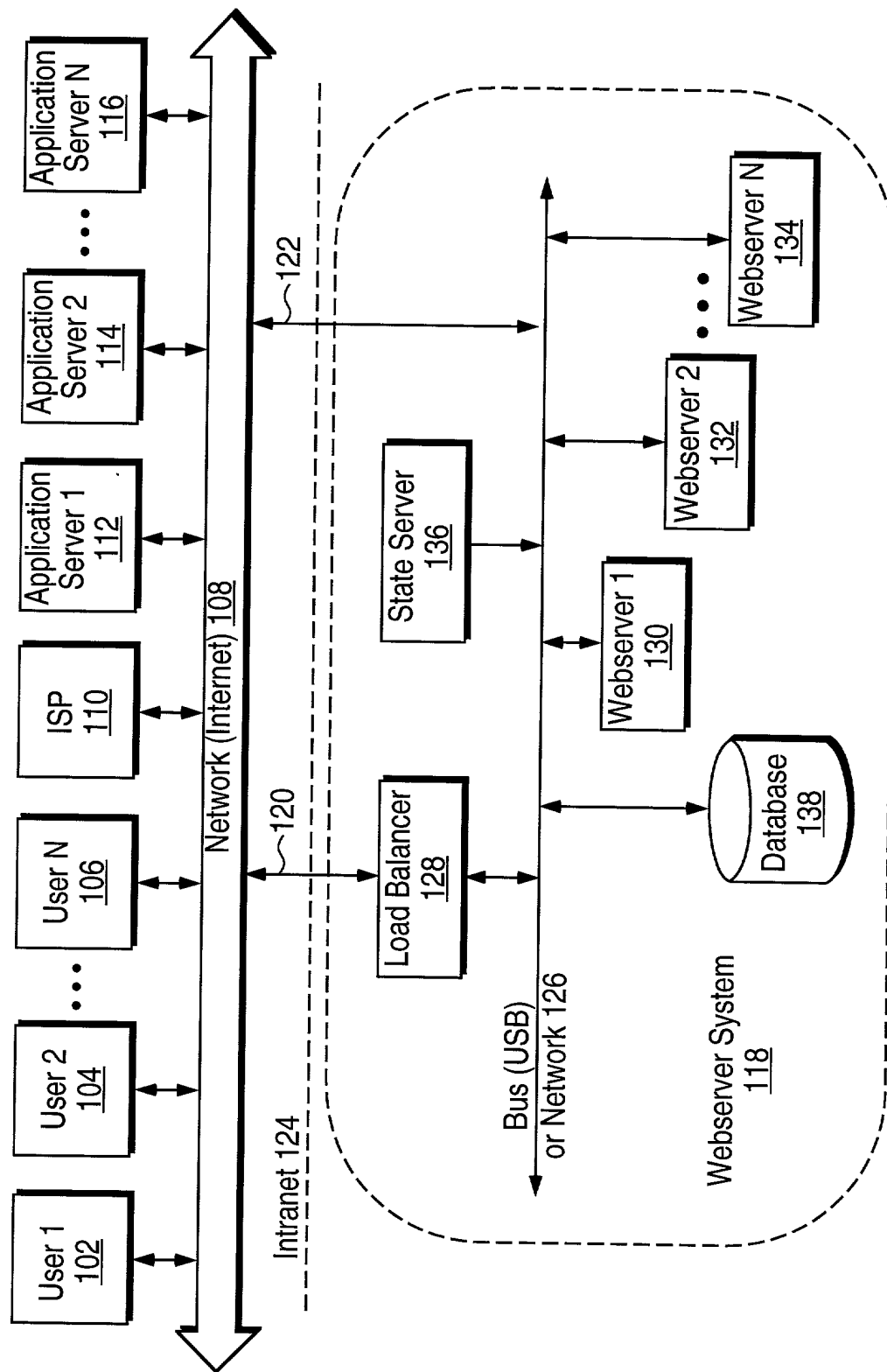


FIG. 1



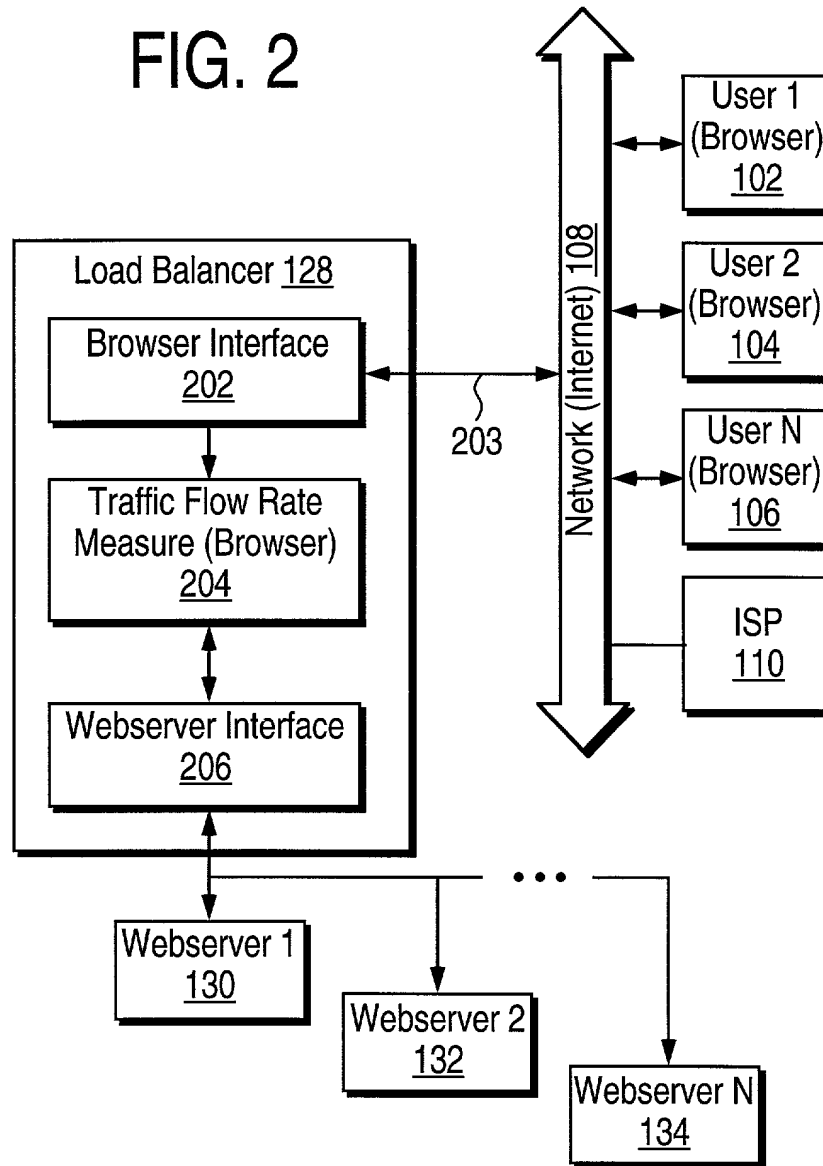
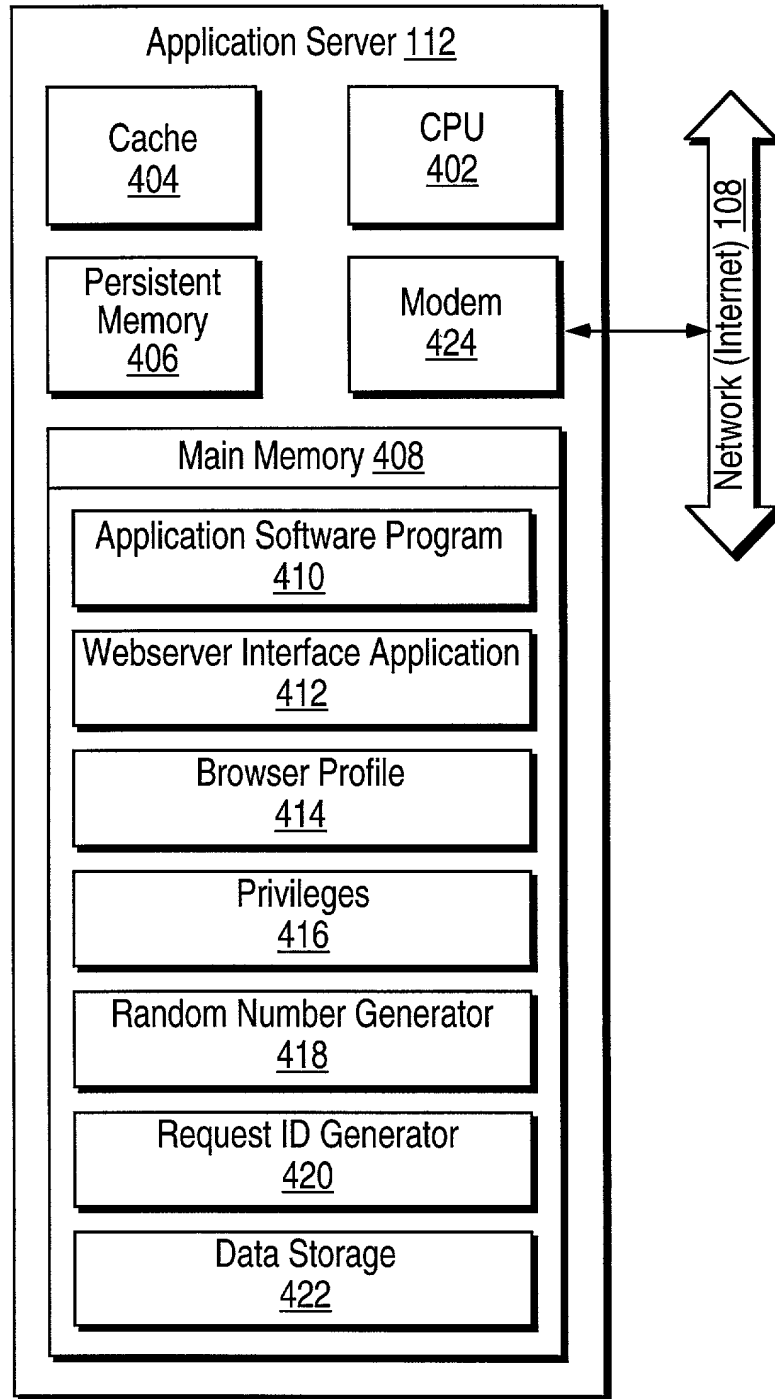
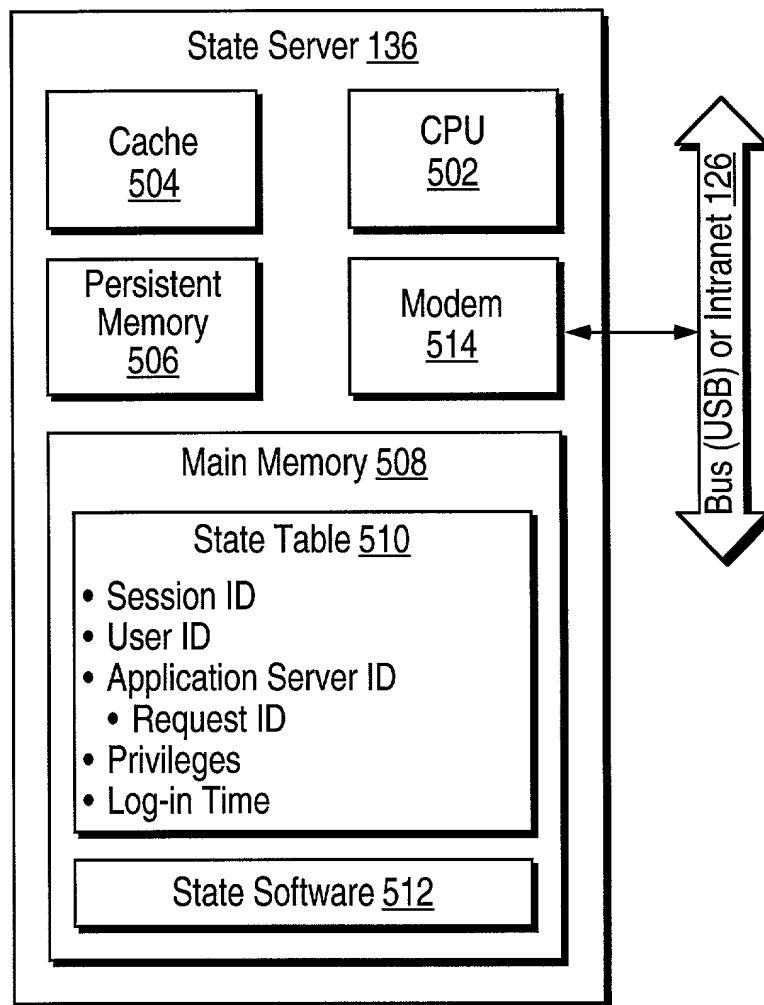


FIG. 3

**FIG. 3**

FIG. 4



[illegible]



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graph TD
    702[Browser Initiates System 702] --> 704[Load Balancer Routes Browser to Available Webserver 704]
    704 --> 706[Webserver Waits for Application Server 706]
    706 --> 708[Application Server Initiates Webserver(s) 708]
    708 --> 710[Default Webserver Sends Application Server a List of Webserver(s) Available 710]
    710 --> 712[Application Server Initiates Individual Webserver(s) to Receive Browser Requests 712]
    712 --> 714[Application Server Sends Individual Webserver(s):  
• Signature of Application  
• Version of Application 714]
    714 --> 716[Webserver Verifies Signature and Version of Application 716]
    716 --> 718{Signature and Version Valid? 718}
    718 -- No --> 706
    718 -- Yes --> 720[Webserver Acknowledges Application Server 720]
    720 --> 722[Application Server Sends Webserver(s) Socket Connection Capacity 722]
    722 --> 706
    722 --> 724[Application Server Sends:  
• Server Name 724  
• Unique ID (Random No.) 724]
    724 --> 726[Webserver Verifies Application Name 726]
    726 --> 728{Application Name Valid? 728}
    728 -- No --> 706
    728 -- Yes --> 730{Application Name in Database? 730}
    730 -- Yes --> 732[Continue Use of Application Name 732]
    730 -- No --> 734[Write Application Name And Unique ID to Database 734]
    732 --> 736[Webserver Establishes Browser Socket Pool, Sets Socket Pool Name 736]
    734 --> 736
    736 --> 738[Webserver Validates Socket Pool Name to Database 738]
    738 --> 740{Pool Name Used? 740}
    740 -- Yes --> 742[Mark Old Pool With Invalid Status 742]
    740 -- No --> 746[Set Pool Name; Ref.=0 746]
    742 --> 748{1st Socket Connection? 748}
    746 --> 748
    748 -- Yes --> 750[Webserver Establishes Control Socket for Application Server 750]
    748 -- No --> 752[Webserver Sends List of Webserver(s) Clustered for Pool to Application Server 752]
    750 --> 706
    752 --> 706

```

FIG. 7

FIG. 7

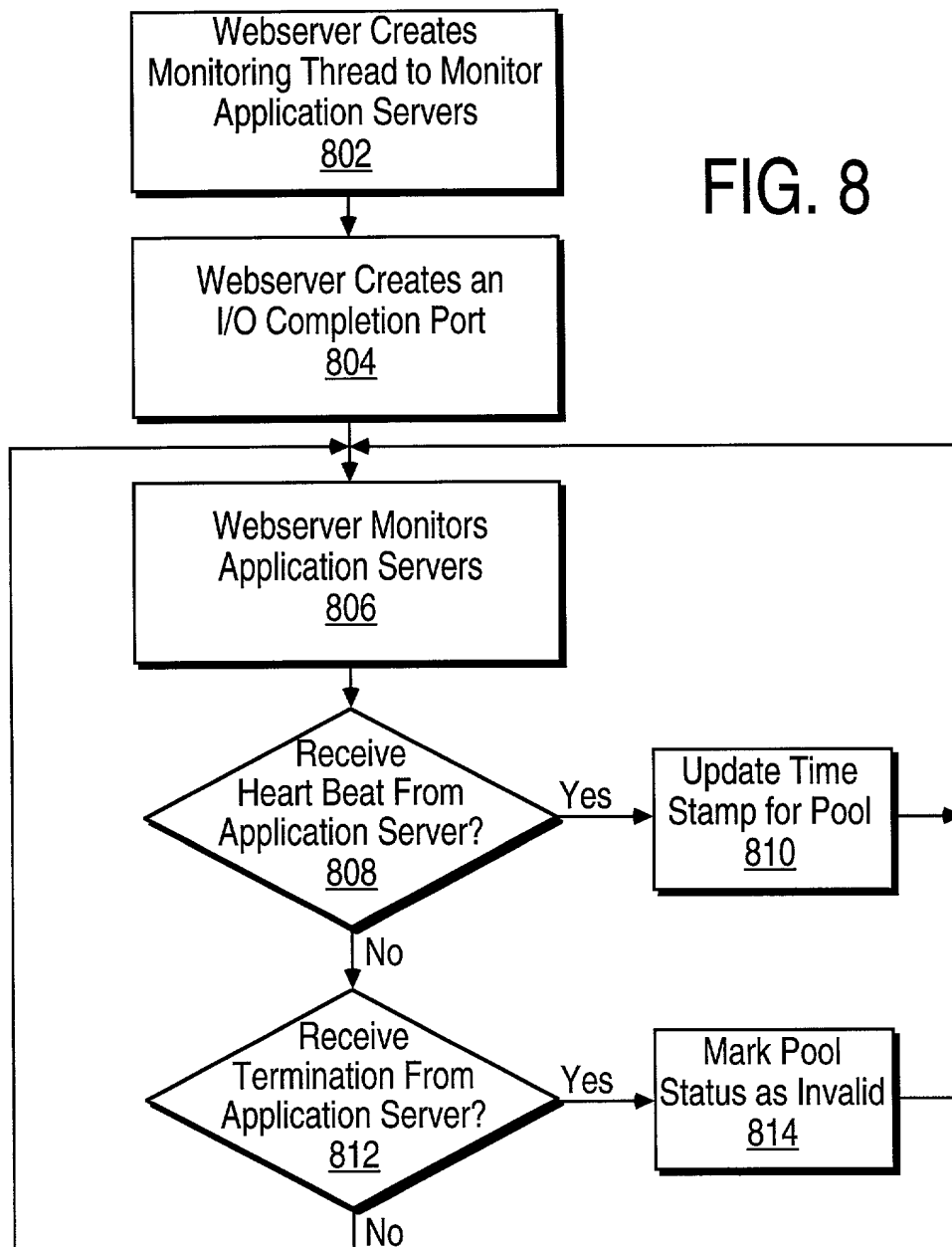
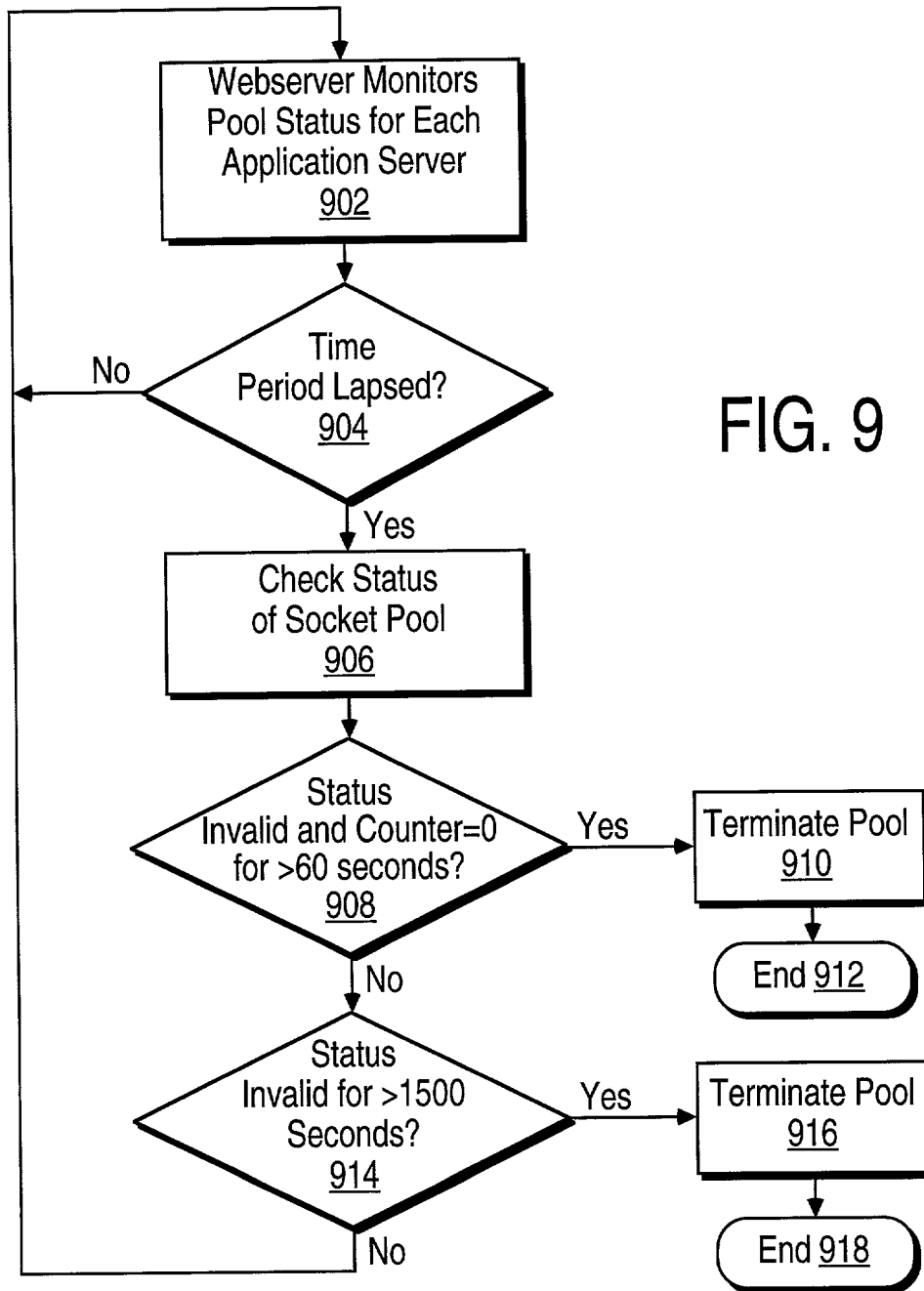


FIG. 8



| Physical Properties of Polymers |   |
|---------------------------------|---|
| Polymer                         | Properties  |
| 1                               | <p><math>M_n = 10,000</math><br/> <math>M_w = 15,000</math><br/> <math>M_z = 25,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 120^\circ C</math><br/> <math>T_m = 180^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>    |
| 2                               | <p><math>M_n = 20,000</math><br/> <math>M_w = 30,000</math><br/> <math>M_z = 45,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 130^\circ C</math><br/> <math>T_m = 190^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>    |
| 3                               | <p><math>M_n = 30,000</math><br/> <math>M_w = 45,000</math><br/> <math>M_z = 70,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 140^\circ C</math><br/> <math>T_m = 200^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>    |
| 4                               | <p><math>M_n = 40,000</math><br/> <math>M_w = 60,000</math><br/> <math>M_z = 90,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 150^\circ C</math><br/> <math>T_m = 210^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>    |
| 5                               | <p><math>M_n = 50,000</math><br/> <math>M_w = 75,000</math><br/> <math>M_z = 110,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 160^\circ C</math><br/> <math>T_m = 220^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>   |
| 6                               | <p><math>M_n = 60,000</math><br/> <math>M_w = 90,000</math><br/> <math>M_z = 135,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 170^\circ C</math><br/> <math>T_m = 230^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>   |
| 7                               | <p><math>M_n = 70,000</math><br/> <math>M_w = 105,000</math><br/> <math>M_z = 157,500</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 180^\circ C</math><br/> <math>T_m = 240^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>  |
| 8                               | <p><math>M_n = 80,000</math><br/> <math>M_w = 120,000</math><br/> <math>M_z = 180,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 190^\circ C</math><br/> <math>T_m = 250^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>  |
| 9                               | <p><math>M_n = 90,000</math><br/> <math>M_w = 135,000</math><br/> <math>M_z = 202,500</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 200^\circ C</math><br/> <math>T_m = 260^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p>  |
| 10                              | <p><math>M_n = 100,000</math><br/> <math>M_w = 150,000</math><br/> <math>M_z = 225,000</math><br/> <math>PDI = 1.5</math></p> <p><math>T_g = 210^\circ C</math><br/> <math>T_m = 270^\circ C</math><br/> <math>\Delta T_m = 60^\circ C</math></p> <p><math>\rho = 1.2 g/cm^3</math><br/> <math>n_D = 1.5</math><br/> <math>\alpha_D = 10^\circ</math></p> |







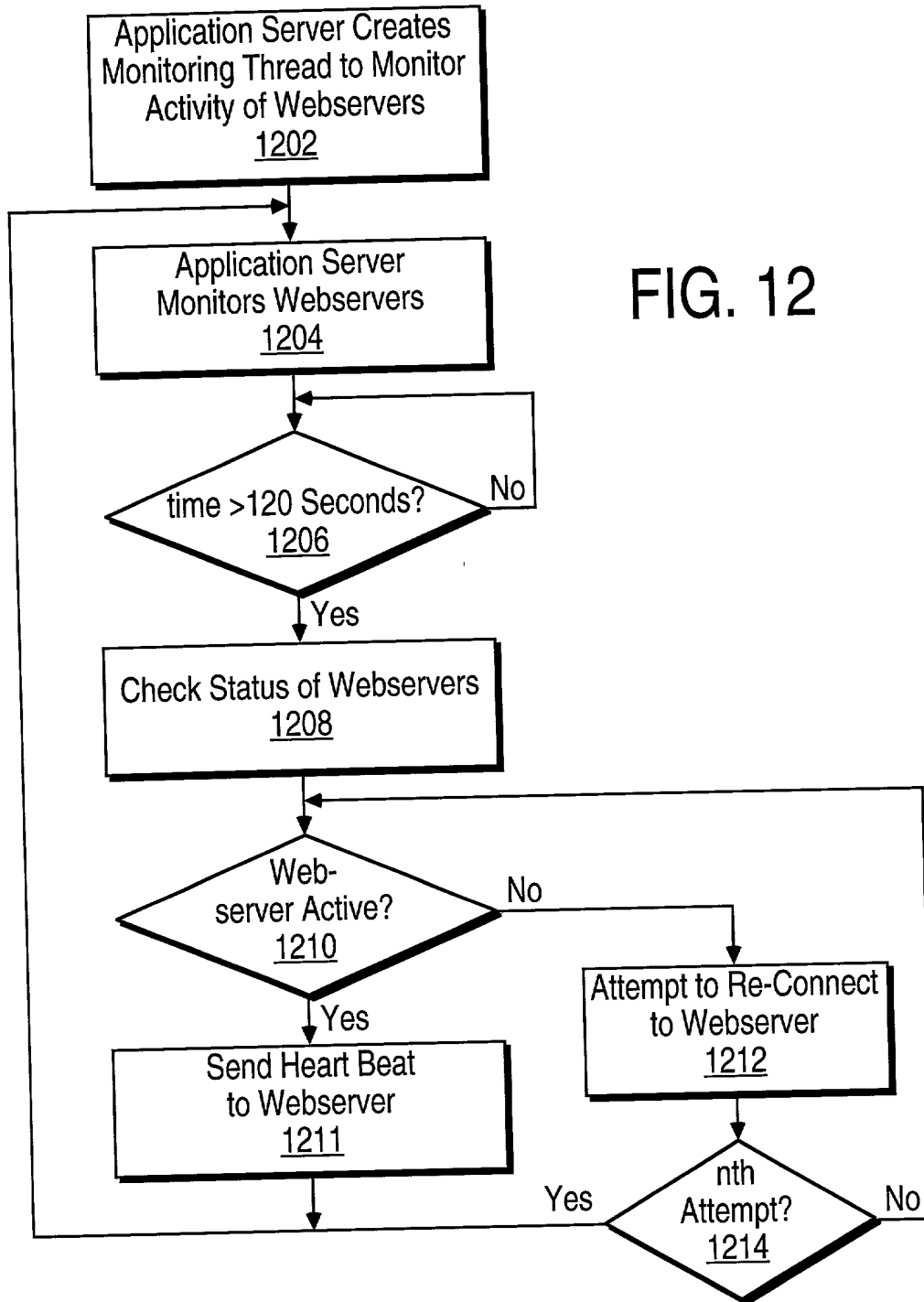


FIG. 12

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graph TD
    1302[Webserver Receives Browser Request For Application Server 1302] --> 1304[Webserver Creates Thread to State Server 1304]
    1304 --> 1306[State Server Monitors Webserver Dedicated to Browser For Application Server 1306]
    1306 --> 1308{Time > 120 Seconds? 1308}
    1308 -- No --> 1306
    1308 -- Yes --> 1310[Check Status of Webserver Serving Browser 1310]
    1310 --> 1213{Webserver Active? 1213}
    1213 -- No --> 1316[Attempt to Re-Connect Browser to Webserver 1316]
    1213 -- Yes --> 1314[Update State Server Browser File by Webserver 1314]
    1314 --> 1318{nth Attempt? 1318}
    1318 -- No --> 1316
    1318 -- Yes --> 1320[Application Server Re-Connects to New Webserver 1320]
    1320 --> 1322[New Webserver Downloads Browser Information From State Machine 1322]
    1322 --> 1306

```

FIG. 13

FIG. 13